



THE UNIVERSITY OF BRITISH COLUMBIA

**Faculty of Applied Science
School of Engineering
POSITIONS –TEACHING ASSISTANT
(UTA or GTA)**

The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

APSC 169 – Fundamentals of Sustainable Engineering Design

Theory and practice of sustainable engineering. Awareness and risk analysis of potential impacts on society and the environment over the lifecycle of engineering projects. Engineering design process, project lifecycle, and professional responsibility. Team-based design project.

Start Date: January 8, 2024

End Date: April 26, 2024

Wage for this position: As per the BCGEU Collective Agreement UTA or GTA.

Eligibility: To be eligible to apply, applicants must be enrolled in a full-time undergraduate or graduate degree program at UBC Okanagan. Successful Candidates are required to be in Canada for the duration of the position. (Note: a full-time student is defined as having a minimum of 24 credits for the 2023 winter session).

TO APPLY FOR THIS POSITION: Please complete online TA application form

APPLICATION DEADLINE: April 30, 2023

Equity and diversity are essential to academic excellence. An open and diverse community fosters the inclusion of voices that have been underrepresented or discouraged. We encourage applications from members of groups that have been marginalized on any grounds enumerated under the B.C. Human Rights Code, including sex, sexual orientation, gender identity or expression, racialization, disability, political Policy #HR11 7 belief, religion, marital or family status, age, and/or status as a First Nation, Metis, Inuit, or Indigenous person.



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**Faculty of Applied Science
School of Engineering
POSITIONS – TEACHING ASSISTANT
(UTA or GTA)**

The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

APSC 171 – Engineering Drawing and CAD/CAM

Orthographic projections, axonometric and perspective projections, dimensioning and tolerances, computer-aided design and modelling, introduction to rapid prototyping, team-based design project.

Start Date: January 8, 2024

End Date: April 26, 2024

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POSITIONS – TEACHING ASSISTANT
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The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

APSC 172 – Engineering Analysis I

Functions, limits, differentiation, applications of derivatives, integration, applications of definite integrals.

Start Date: January 8, 2024

End Date: April 26, 2024

Description of Duties: The successful candidate will conduct tutorial sections under the supervision of the course instructor.

Wage for this position: As per the BCGEU Collective Agreement UTA or GTA.

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APSC 173 – Engineering Analysis II

Integrals and transcendental functions, techniques of integration, applications of integration, polar coordinates, infinite sequences and series, vectors and the geometry of space, and partial derivatives.

Start Date: January 8, 2024

End Date: April 26, 2024

Description of Duties: The successful candidate will conduct tutorial sections under the supervision of the course instructor.

Wage for this position: As per the BCGEU Collective Agreement UTA or GTA.

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The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

APSC 177 – Engineering Communication and Instrumentation

Computer systems, software development, operating systems, compilers, programming in a high-level language, selection and loop structures, functions, arrays, pointers, files, data acquisition, solving engineering problems with computer programs.

Start Date: January 8, 2024

End Date: April 26, 2024

Description of Duties: The successful candidate will conduct lab sections under the supervision of the course instructor.

Wage for this position: As per the BCGEU Collective Agreement UTA or GTA.

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APSC 178 – Electricity, Magnetism and Waves

Electric fields and forces, electric potential, capacitance, DC circuits, magnetic fields and forces, Faraday's law, inductance, waves, light, and optics.

Start Date: January 8, 2024

End Date: April 26, 2024

Description of Duties: The successful candidate will conduct tutorial sections under the supervision of the course instructor.

Wage for this position: As per the BCGEU Collective Agreement UTA or GTA.

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APSC 180 – STATICS

Force vectors, Cartesian coordinate system, free body diagram, dot and cross products, forces equilibrium of particles, force and moment equilibrium of rigid bodies, analysis of trusses, frames and machines, friction, wedges, pulleys, and belts.
Applications of linear algebra in statics.

Start Date: January 8, 2024

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APSC 181 – Dynamics

Kinematics of particles, curvilinear motion, normal-tangential, polar, cylindrical coordinates, force and acceleration, equation of motions, work and energy, conservation of energy. Introduction to rigid body dynamics.

Start Date: January 8, 2024

End Date: April 26, 2024

Description of Duties: The successful candidate will conduct tutorial sections under the supervision of the course instructor.

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APSC 183 – Matter and Energy II

Chemical equilibrium, reactions in gas phase and in aqueous solutions, acid-base and redox reactions, kinetics of chemical reactions, thermochemistry, electrochemistry, and organic chemistry.

Start Date: January 8, 2024

End Date: April 26, 2024

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THE UNIVERSITY OF BRITISH COLUMBIA

**Faculty of Applied Science
School of Engineering
POSITIONS – TEACHING ASSISTANT MARKER
(UTA or GTA)**

The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

APSC 201 – TECHNICAL COMMUNICATION

Written and oral communication in engineering. Report preparation, business correspondence, and oral presentation of technical material

Start Date: January 8, 2024

End Date: April 26, 2024

Description of Duties: The successful candidate will conduct marking under the supervision of the course instructor.

Wage for this position: As per the BCGEU Collective Agreement UTA or GTA.

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The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

APSC 253 – FLUID MECHANICS I

Fluid properties and fluid statics; principles of conservation of mass, momentum, and energy; laminar and turbulent flow; dimensional analysis; pipe flow; valves and fittings, flow measurements.

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End Date: April 26, 2024

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POSITIONS – TEACHING ASSISTANT
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The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

APSC 255 – ELECTRICAL CIRCUITS AND POWER

Circuit analysis techniques for steady-state AC and DC circuits containing independent and dependent voltage and current sources, resistance, capacitance and inductance. DC maximum power transfer. AC power including real, reactive, apparent and complex power and power factor. AC power analysis using phasors. Three-phase AC power systems.

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The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

APSC 258 – Applications of Engineering Design

Principles of engineering design, applied to a team-based design project. Use of probability, programming, decision making, economic principles, systems theory, and technical communication in design projects.

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Description of Duties: The successful candidate will conduct tutorial or lab sections under the supervision of the course instructor.

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The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

APSC 260 – Mechanics of Materials I

Concepts of stress and strain. Axial, shear forces and bending moment diagrams for statically determinate structures, torsion in shafts. Axial and shear stresses and deformations. Transformation of plane stress, Mohr's circle.

Start Date: January 8, 2024

End Date: April 26, 2024

Description of Duties: The successful candidate will conduct tutorial sections under the supervision of the course instructor.

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The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

APSC 261 – Theory of Structures

Type of structures and structural elements. Loads and load path. Design objectives, philosophy and limit states. Static determinacy and stability. Analysis of statically determinate structures. Deflection using energy and geometrical methods. Influence lines.

Start Date: January 8, 2024

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**Faculty of Applied Science
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POSITIONS – LAB TEACHING ASSISTANT
(UTA or GTA)**

The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

APSC 262 – Digital Logic Design

Logic design methods, hardware description language (HDL), number representation and arithmetic circuits, combinational circuits, flip-flops, registers, programmable logic devices (FPGAs), counters, finite state machines, digital system designs.

Start Date: January 8, 2024

End Date: April 26, 2024

Description of Duties: The successful candidate will conduct lab sections or marking under the supervision of the course instructor.

Wage for this position: As per the BCGEU Collective Agreement UTA or GTA.

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The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

APSC 270 – Signals and Communication Systems

Fourier series and Fourier transform analysis of signals; sampling theorem; amplitude; phase; and frequency modulation; baseband digital transmission; pulse code modulation and quantization; Nyquist pulses; inter-symbol interference..

Start Date: January 8, 2024

End Date: April 26, 2024

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APSC 278 – Electric and Magnetic Fields

Review of vector calculus and coordinate systems; electrostatic fields; electric dipoles and polarization; magnetostatics fields; magnetic dipoles and magnetization; boundary conditions; electromagnetic induction; Maxwell's equations.

Start Date: January 8, 2024

End Date: April 26, 2024

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The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

APSC 504 – Solar Cell Engineering

Climate change and renewable energy sources, operational principles of solar cells and review of leading technologies, deposition and characterization tools for thin film layers, environmental and economic considerations of solar energy, and latest developments in academic research.

Start Date: January 8, 2024

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The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

APSC 419/519 – System Identification

Identification of dynamical systems by considering input signals, sensor measurements, noise, and disturbance, as well as using parameter estimation, model selection and validation, and practical considerations

Start Date: January 8, 2024

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POSITIONS –TEACHING ASSISTANT
(UTA or GTA)**

The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

ENGR 305 – Engineering Economic Analysis

Cost concepts, accounting, time value of money; depreciation and taxes; public sector projects; economic evaluation techniques; handling uncertainty; sustainability in economic evaluation; societal context; infrastructure management needs; project impacts, mitigating risk. Case studies

Start Date: January 8, 2024

End Date: April 26, 2024

Description of Duties: The successful candidate will conduct marking under the supervision of the course instructor.

Wage for this position: As per the BCGEU Collective Agreement UTA or GTA.

Eligibility: To be eligible to apply, applicants must be enrolled in a full-time undergraduate or graduate degree program at UBC Okanagan. Successful Candidates are required to be in Canada for the duration of the position. (Note: a full-time student is defined as having a minimum of 24 credits for the 2023 winter session).

TO APPLY FOR THIS POSITION: Please complete online TA application form

APPLICATION DEADLINE: April 30, 2023

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THE UNIVERSITY OF BRITISH COLUMBIA

**Faculty of Applied Science
School of Engineering
POSITIONS –TEACHING ASSISTANT
(UTA or GTA)**

The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

ENGR 315 – Systems and Control

Dynamic systems, linear systems, control concepts, block diagrams, transient response, root locus, frequency response, Bode and Nyquist plots, and controller design.

Start Date: January 8, 2024

End Date: April 26, 2024

Description of Duties: The successful candidate will conduct tutorial or lab sections under the supervision of the course instructor.

Wage for this position: As per the BCGEU Collective Agreement UTA or GTA.

Eligibility: To be eligible to apply, applicants must be enrolled in a full-time undergraduate or graduate degree program at UBC Okanagan. Successful Candidates are required to be in Canada for the duration of the position. (Note: a full-time student is defined as having a minimum of 24 credits for the 2023 winter session).

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**Faculty of Applied Science
School of Engineering
POSITIONS – TEACHING ASSISTANT
(UTA or GTA)**

The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

ENGR 320 – Electromechanical Devices

DC and AC magnetic circuits, transformers, DC machines, principles of electromagnetic devices, synchronous machines, induction motors, and brushless DC motors

Start Date: January 8, 2024

End Date: April 6, 2024

Description of Duties: The successful candidate will conduct lab or tutorial sections under the supervision of the course instructor.

Wage for this position: As per the BCGEU Collective Agreement UTA or GTA.

Eligibility: To be eligible to apply, applicants must be enrolled in a full-time undergraduate or graduate degree program at UBC Okanagan. Successful Candidates are required to be in Canada for the duration of the position. (Note: a full-time student is defined as having a minimum of 24 credits for the 2023 winter session).

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**Faculty of Applied Science
School of Engineering
POSITIONS –TEACHING ASSISTANT
(UTA or GTA)**

The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

ENGR 330 – Reliability and Risk Analysis for Civil Engineering

Applied probability and simulation for civil engineering infrastructure. Methods for probabilistic risk and reliability analysis.
Risk-based decision making.

Start Date: January 8, 2024

End Date: April 6, 2024

Description of Duties: The successful candidate will conduct lab or tutorial sections under the supervision of the course instructor.

Wage for this position: As per the BCGEU Collective Agreement UTA or GTA.

Eligibility: To be eligible to apply, applicants must be enrolled in a full-time undergraduate or graduate degree program at UBC Okanagan. Successful Candidates are required to be in Canada for the duration of the position. (Note: a full-time student is defined as having a minimum of 24 credits for the 2023 winter session).

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**Faculty of Applied Science
School of Engineering
POSITIONS –TEACHING ASSISTANT
(UTA or GTA)**

The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

ENGR 331 – Infrastructure Management I

Introduction to asset management, municipal infrastructure systems, performance and prioritization measures, data management, life cycle costing, decision support tools, integrated approach.

Start Date: January 8, 2024

End Date: April 6, 2024

Description of Duties: The successful candidate will conduct lab or tutorial sections under the supervision of the course instructor.

Wage for this position: As per the BCGEU Collective Agreement UTA or GTA.

Eligibility: To be eligible to apply, applicants must be enrolled in a full-time undergraduate or graduate degree program at UBC Okanagan. Successful Candidates are required to be in Canada for the duration of the position. (Note: a full-time student is defined as having a minimum of 24 credits for the 2023 winter session).

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**Faculty of Applied Science
School of Engineering
POSITIONS –TEACHING ASSISTANT
(UTA or GTA)**

The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

ENGR 332 – Surveying and GIS Analysis

Theory and application methods for measuring and representing objects of interest on, below, and over the earth's surface, and for analyzing data to meet engineering design and operational objectives driven by socio-economic or environmental concerns of natural and engineered systems.

Start Date: January 8, 2024

End Date: April 6, 2024

Description of Duties: The successful candidate will conduct lab or tutorial sections under the supervision of the course instructor.

Wage for this position: As per the BCGEU Collective Agreement UTA or GTA.

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**Faculty of Applied Science
School of Engineering
POSITIONS –TEACHING ASSISTANT
(UTA or GTA)**

The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

ENGR 335 – Transportation Engineering

Analysis, planning, design, and operation of transportation systems, including: governance, economics, land use, transport modes, users, roads, freeways, end-of-trip facilities, public transit, and intersection controls.

Start Date: January 8, 2024

End Date: April 6, 2024

Description of Duties: The successful candidate will conduct lab or tutorial sections under the supervision of the course instructor.

Wage for this position: As per the BCGEU Collective Agreement UTA or GTA.

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School of Engineering
POSITIONS –TEACHING ASSISTANT
(UTA or GTA)**

The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

ENGR 340 – Soil Mechanics

Geological processes, soil classification, principle of effective stress, seepage analysis, shear strength, soil compaction, consolidation, and slope stability analysis.

Start Date: January 8, 2024

End Date: April 6, 2024

Description of Duties: The successful candidate will conduct lab or tutorial sections under the supervision of the course instructor.

Wage for this position: As per the BCGEU Collective Agreement UTA or GTA.

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**Faculty of Applied Science
School of Engineering
POSITIONS –TEACHING ASSISTANT
(UTA or GTA)**

The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

ENGR 352 – Microelectronics II

Building blocks of integrated-circuit amplifiers; differential multistage amplifiers; frequency response; feedback; output stages and power amplifiers; and operational amplifier circuitry

Start Date: January 8, 2024

End Date: April 6, 2024

Description of Duties: The successful candidate will conduct lab or tutorial sections under the supervision of the course instructor.

Wage for this position: As per the BCGEU Collective Agreement UTA or GTA.

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THE UNIVERSITY OF BRITISH COLUMBIA

**Faculty of Applied Science
School of Engineering
POSITIONS – TEACHING ASSISTANT MARKER
(UTA or GTA)**

The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

ENGR 362 – Digital Signal Processing

Discrete-time signals and systems, difference equations, sampling and aliasing, decimation and interpolation, quantization errors, z-transform, discrete Fourier transform, fast Fourier transform, implementation of discrete-time systems, finite and infinite impulse response filter design

Start Date: January 8, 2024
End Date: April 26, 2024

Description of Duties: The successful candidate will conduct lab sections or marking under the supervision of the course instructor.

Wage for this position: As per the BCGEU Collective Agreement UTA or GTA.

Eligibility: To be eligible to apply, applicants must be enrolled in a full-time undergraduate or graduate degree program at UBC Okanagan. Successful Candidates are required to be in Canada for the duration of the position. (Note: a full-time student is defined as having a minimum of 24 credits for the 2023 winter session).

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**Faculty of Applied Science
School of Engineering
POSITIONS –TEACHING ASSISTANT
(UTA or GTA)**

The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

ENGR 375 – Energy System Design

Primary energy sources and carriers. Energy conversion. Analysis of thermal systems. Reacting systems and combustion. Thermal systems design including steam power plants, gas turbines, internal combustion engines, and refrigeration systems.

Start Date: January 8, 2024

End Date: April 26, 2024

Description of Duties: The successful candidate will conduct tutorial sections under the supervision of the course instructor.

Wage for this position: As per the BCGEU Collective Agreement UTA or GTA.

Eligibility: To be eligible to apply, applicants must be enrolled in a full-time undergraduate or graduate degree program at UBC Okanagan. Successful Candidates are required to be in Canada for the duration of the position. (Note: a full-time student is defined as having a minimum of 24 credits for the 2023 winter session).

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**Faculty of Applied Science
School of Engineering
POSITIONS –TEACHING ASSISTANT
(UTA or GTA)**

The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

ENGR 378 – Electromagnetics for Engineers

Maxwell's equations, time harmonic fields, plane waves in media, polarization, Fresnel equations, transmission lines, scattering parameters, the Smith Chart, and waveguides.

Start Date: January 8, 2024

End Date: April 26, 2024

Description of Duties: The successful candidate will conduct lab or tutorial sections or marking under the supervision of the course instructor.

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**Faculty of Applied Science
School of Engineering
POSITIONS –TEACHING ASSISTANT
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The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

ENGR 380 – Design of Machine Elements

Product design methodology; static and fatigue failure theory; design/selection of components including shafts, springs, bearings, gears, brakes, and clutches; design of bolted joints, power screws, and welds; design evaluation and optimization.

Start Date: January 8, 2024

End Date: April 26, 2024

Description of Duties: The successful candidate will conduct tutorial sections under the supervision of the course instructor.

Wage for this position: As per the BCGEU Collective Agreement UTA or GTA.

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**Faculty of Applied Science
School of Engineering
POSITIONS –TEACHING ASSISTANT
(UTA or GTA)**

The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

ENGR 385 – Heat Transfer Applications

Steady and transient conduction heat transfer, radiation heat transfer, convection heat transfer, introduction to heat exchanger.

Start Date: January 8, 2024

End Date: April 26, 2024

Description of Duties: The successful candidate will conduct lab or tutorial sections under the supervision of the course instructor.

Wage for this position: As per the BCGEU Collective Agreement UTA or GTA.

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**Faculty of Applied Science
School of Engineering
POSITIONS – TEACHING ASSISTANT
(UTA or GTA)**

The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

ENGR 402 – Biotechnology: Fundamentals and Applications

Basics of biotechnology, DNA and RNA technologies, nanobiotechnology, medical biotechnology, and ethics in biotechnology.

Start Date: January 8, 2024

End Date: April 26, 2024

Description of Duties: The successful candidate will conduct tutorial or lab or marking sections under the supervision of the course instructor.

Wage for this position: As per the BCGEU Collective Agreement UTA or GTA.

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**Faculty of Applied Science
School of Engineering
POSITIONS –TEACHING ASSISTANT
(UTA or GTA)**

The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

ENGR 407 – Inclusive Design

Design and prototyping of devices from different perspectives of inclusion, with an emphasis on disability, chronic illness, and population diversity; analysis of existing technologies and practices, including built environments, portable devices, user interfaces, sports, and occupational task and process design.

Start Date: January 8, 2024

End Date: April 26, 2024

Description of Duties: The successful candidate will conduct lab or tutorial sections under the supervision of the course instructor.

Wage for this position: As per the BCGEU Collective Agreement UTA or GTA.

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**Faculty of Applied Science
School of Engineering
POSITIONS –TEACHING ASSISTANT
(UTA or GTA)**

The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

ENGR 408 – Energy System Transition

GHG emission reductions, examination of the sources and use of energy, practical potential transition strategies.

Start Date: January 8, 2024
End Date: April 26, 2024

Description of Duties: The successful candidate will conduct lab or tutorial sections or marking under the supervision of the course instructor.

Wage for this position: As per the BCGEU Collective Agreement UTA or GTA.

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**Faculty of Applied Science
School of Engineering
POSITIONS –TEACHING ASSISTANT
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The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

ENGR 410 – Technology Innovation for Engineers

An introduction to the concept of Innovation, with particular focus on technological innovation, and its impact on economic, social, health, legal, and cultural aspects of society. Technological innovations are explored using creative, design and entrepreneurial thinking. Causes for acceptance or rejection of technological innovations are examined using behavioural economic theories.

Start Date: January 8, 2024

End Date: April 26, 2024

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Wage for this position: As per the BCGEU Collective Agreement UTA or GTA.

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**Faculty of Applied Science
School of Engineering
POSITIONS –TEACHING ASSISTANT
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The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

ENGR 411 – Technology Innovation for Engineers

Engineering and innovation, business models, customer development, intellectual property, product development, customer validation, hypothesis testing, company positioning

Start Date: January 8, 2024

End Date: April 26, 2024

Description of Duties: The successful candidate will conduct lab or tutorial sections or marking under the supervision of the course instructor.

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**Faculty of Applied Science
School of Engineering
POSITIONS –TEACHING ASSISTANT
(UTA or GTA)**

The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

ENGR 413 – Law and Ethics for Engineers

Ethical theories and their application. The Canadian legal system. Companies, partnerships, independent contractors. Contract documents, specifications, liability, torts and liens. Intellectual property. Agency; evidence; role of an expert witness.

Employment law. Professional Governance Act, Code of Ethics, consultation and engagement with Indigenous communities.

Start Date: January 8, 2024

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(UTA or GTA)**

The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

ENGR 414 and APSC 514 – Precast Concrete Structures

Means and methods of precast concrete construction; advanced design of precast concrete structures; analysis of experimental data of precast concrete components; innovations in precast concrete construction.

Start Date: January 8, 2024

End Date: April 26, 2024

Description of Duties: The successful candidate will conduct lab or tutorial sections or marking under the supervision of the course instructor.

Wage for this position: As per the BCGEU Collective Agreement UTA or GTA.

Eligibility: To be eligible to apply, applicants must be enrolled in a full-time undergraduate or graduate degree program at UBC Okanagan. Successful Candidates are required to be in Canada for the duration of the position. (Note: a full-time student is defined as having a minimum of 24 credits for the 2023 winter session).

TO APPLY FOR THIS POSITION: Please complete online TA application form

APPLICATION DEADLINE: April 30, 2023

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THE UNIVERSITY OF BRITISH COLUMBIA

**Faculty of Applied Science
School of Engineering
POSITIONS –TEACHING ASSISTANT
(UTA or GTA)**

The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

ENGR 416– CAD/CAM/CAE

CNC machining, Rapid prototyping, G-code, Computer Aided: Design, Manufacturing and Engineering, parametric design and analysis for optimization.

Start Date: January 8, 2024

End Date: April 26, 2024

Description of Duties: The successful candidate will conduct lab or tutorial sections or marking under the supervision of the course instructor.

Wage for this position: As per the BCGEU Collective Agreement UTA or GTA.

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**Faculty of Applied Science
School of Engineering
POSITIONS –TEACHING ASSISTANT
(UTA or GTA)**

The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

ENGR 417– Pipeline Integrity Management

Pipeline regulation codes, pipeline integrity management, pipeline operations, materials and fabrication, examination techniques, corrosion protection, and geohazards evaluation.

Start Date: January 8, 2024

End Date: April 26, 2024

Description of Duties: The successful candidate will conduct lab or tutorial sections or marking under the supervision of the course instructor.

Wage for this position: As per the BCGEU Collective Agreement UTA or GTA.

Eligibility: To be eligible to apply, applicants must be enrolled in a full-time undergraduate or graduate degree program at UBC Okanagan. Successful Candidates are required to be in Canada for the duration of the position. (Note: a full-time student is defined as having a minimum of 24 credits for the 2023 winter session).

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**Faculty of Applied Science
School of Engineering
POSITIONS –TEACHING ASSISTANT
(UTA or GTA)**

The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

ENGR 420– Fundamentals of Healthy Buildings

Building biology, bio-house design, health effects of building materials, construction techniques, temperature, light, ventilation, plumbing, ergonomics, and psychological factors.

Start Date: January 8, 2024

End Date: April 26, 2024

Description of Duties: The successful candidate will conduct lab or tutorial sections or marking under the supervision of the course instructor.

Wage for this position: As per the BCGEU Collective Agreement UTA or GTA.

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**Faculty of Applied Science
School of Engineering
POSITIONS –TEACHING ASSISTANT
(UTA or GTA)**

The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

ENGR 423– Wearable Devices

Design and prototyping including textiles, hardware, software, data storage, miniaturization, wireless communication, power, environment, and fabrication. Analysis of wearable technologies and challenges of mass adoption.

Start Date: January 8, 2024

End Date: April 26, 2024

Description of Duties: The successful candidate will conduct lab or tutorial sections or marking under the supervision of the course instructor.

Wage for this position: As per the BCGEU Collective Agreement UTA or GTA.

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**Faculty of Applied Science
School of Engineering
POSITIONS –TEACHING ASSISTANT
(UTA or GTA)**

The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

ENGR 424– Smart Cities

Smart city concept, smart city standardization, smart grid and energy management, Internet of Things and cloud computing for smart city, smart city lighting, intelligent transportation, technology enhanced infrastructure, water solutions, smart buildings and technology, data analytics in smart cities.

Start Date: January 8, 2024

End Date: April 26, 2024

Description of Duties: The successful candidate will conduct lab or tutorial sections or marking under the supervision of the course instructor.

Wage for this position: As per the BCGEU Collective Agreement UTA or GTA.

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**Faculty of Applied Science
School of Engineering
POSITIONS –TEACHING ASSISTANT
(UTA or GTA)**

The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

ENGR 425– Design of Steel and Timber Structures

Introduction to limit states design of steel and timber structures: material properties, design of tension and compression members, beams, columns, and connections.

Start Date: January 8, 2024

End Date: April 26, 2024

Description of Duties: The successful candidate will conduct lab or tutorial sections or marking under the supervision of the course instructor.

Wage for this position: As per the BCGEU Collective Agreement UTA or GTA.

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**Faculty of Applied Science
School of Engineering
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(UTA or GTA)**

The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

ENGR 429– Rehabilitation of Concrete Structures

Concrete damage and deterioration mechanisms, assessment and instrumentation; repair and strengthening materials and techniques; design of structural strengthening systems

Start Date: January 8, 2024

End Date: April 26, 2024

Description of Duties: The successful candidate will conduct lab or tutorial sections or marking under the supervision of the course instructor.

Wage for this position: As per the BCGEU Collective Agreement UTA or GTA.

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School of Engineering
POSITIONS –TEACHING ASSISTANT
(UTA or GTA)**

The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

ENGR 435– Transportation Systems Engineering

Analysis, design, and operation of transport systems that support our urban and rural communities, including: traffic studies and field surveys; capacity and level of service analysis; simulation and optimization of networks; transportation demand management; and CAD optimization of horizontal and vertical corridor alignments.

Start Date: January 8, 2024

End Date: April 26, 2024

Description of Duties: The successful candidate will conduct lab or tutorial sections or marking under the supervision of the course instructor.

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The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

ENGR 438– Rock Mechanics and Rock Engineering

Mechanical properties of intact rock. Rock mass properties and classifications. Structural mapping and stereo nets. Rock and rock mass strength criteria. Stresses in rock masses. Rock slope stability analysis. Empirical, analytical, and numerical analysis techniques for underground excavations. Rock support and stabilization

Start Date: January 8, 2024

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Description of Duties: The successful candidate will conduct lab or tutorial sections or marking under the supervision of the course instructor.

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The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

ENGR 439– Advanced Manufacturing

Materials fabrication, forming, and joining: casting, rolling, forging, extrusion, and welding. Powder metallurgy and manufacture of metal alloys, metal matrix composites, and ceramics. Effect of fabrication process on evolution of crystallographic texture, residual stress, mechanical and service properties of materials. Process selection and technology development.

Start Date: January 8, 2024

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The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

ENGR 441 – Advanced Water Treatment Process

Theory and design of advanced drinking water treatment processes used for challenging source water conditions including advanced oxidation, membrane filtration, ultraviolet disinfection, and adsorption processes. Discussion of removal of emerging contaminants (e.g. pharmaceuticals), regulated and unregulated disinfection by-products, and current issues in potable water treatment and quality.

Start Date: January 8, 2024

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**Faculty of Applied Science
School of Engineering
POSITIONS –TEACHING ASSISTANT
(UTA or GTA)**

The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

ENGR 445 – Design of Water and Wastewater Conveyance Systems

Identification and evaluation of design solutions for providing a community with adequate water supply, collecting and disposing of stormwater and sewage, and managing excess stormwater flow.

Start Date: January 8, 2024

End Date: April 26, 2024

Description of Duties: The successful candidate will conduct lab or tutorial sections or marking under the supervision of the course instructor.

Wage for this position: As per the BCGEU Collective Agreement UTA or GTA.

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**Faculty of Applied Science
School of Engineering
POSITIONS –TEACHING ASSISTANT
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The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

ENGR 449 – Aircraft Structures

Structural components of aircraft; design of aircraft wing and fuselage structures; bending and buckling of thin plates; moments of inertia for complex shapes; stress and deflection analysis; fatigue, safe life, damage tolerant design.

Start Date: January 8, 2024

End Date: April 26, 2024

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**Faculty of Applied Science
School of Engineering
POSITIONS –TEACHING ASSISTANT
(UTA or GTA)**

The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

ENGR 453 – Internet of Things

Sensing, actuation, sampling, analog-to-digital and digital-to-analog conversion, voice over IP, video codecs, audio codecs, multimedia communication protocols for IoT, wireless communication protocols for IoT.

Start Date: January 8, 2024

End Date: April 26, 2024

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Wage for this position: As per the BCGEU Collective Agreement UTA or GTA.

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**Faculty of Applied Science
School of Engineering
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The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

ENGR 460 – Tools and Applications in Environmental and Engineering Microbiology

Fundamentals of environmental microbiology and DNA sequencing technologies including microbial detection with molecular methods, bioinformatics and computational analysis.

Start Date: January 8, 2024

End Date: April 26, 2024

Description of Duties: The successful candidate will conduct lab or tutorial sections or marking under the supervision of the course instructor.

Wage for this position: As per the BCGEU Collective Agreement UTA or GTA.

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School of Engineering
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The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

ENGR 467 – Real-Time and Embedded System Design

Multi-tasking, interrupt-driven systems, RTOSs and programming environments, task scheduling, schedulability analysis, inter-process communication and synchronization, resource management, performance measurement.

Start Date: January 8, 2024

End Date: April 26, 2024

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**Faculty of Applied Science
School of Engineering
POSITIONS –TEACHING ASSISTANT
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The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

ENGR 472 and 572 – Fibre Optics and Photonics

Introduction to fibre optic transmission, single-mode and multimode fibre optics, dispersion and absorption design criteria, semiconductor diode lasers, LEDs, modulators, pn and p-i-n receivers, point-to-point and network implementations of fibre optic networks and integrated photonic systems.

Start Date: January 8, 2024

End Date: April 26, 2024

Description of Duties: The successful candidate will conduct lab or tutorial sections or marking under the supervision of the course instructor.

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(UTA or GTA)**

The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

ENGR 474 – Analog Integrated Circuits

Design and analysis of analog integrated circuits with emphasis on CMOS technology. MOS device physics and models, processing technology and layout, differential amplifiers, current mirrors, noise, feedback, opamp design and compensation, two-stage CMOS opamp design, switched-capacitor filters.

Start Date: January 8, 2024

End Date: April 26, 2024

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School of Engineering
POSITIONS –TEACHING ASSISTANT
(UTA or GTA)**

The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

ENGR 475 – Materials Selection and Design

Analysis, design, and operation of transport systems that support our urban and rural communities, including: traffic studies and field surveys; capacity and level of service analysis; simulation and optimization of networks; transportation demand management; and CAD optimization of horizontal and vertical corridor alignment

Start Date: January 8, 2024

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THE UNIVERSITY OF BRITISH COLUMBIA

**Faculty of Applied Science
School of Engineering
POSITIONS –TEACHING ASSISTANT
(UTA or GTA)**

The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

ENGR 478 – Alternate Energy Systems

Description of alternative sources of energy, electric vehicles, thermosolar energy, generation of electricity by photovoltaic effect, wind power energy, hydropower, geothermal, nuclear power, power plants with fuel cells, aspects of hydrogen as fuels, fuel from biomass, energy storage parameters, integration of alternative sources of energy.

Start Date: January 8, 2024

End Date: April 26, 2024

Description of Duties: The successful candidate will conduct lab or tutorial sections or marking under the supervision of the course instructor.

Wage for this position: As per the BCGEU Collective Agreement UTA or GTA.

Eligibility: To be eligible to apply, applicants must be enrolled in a full-time undergraduate or graduate degree program at UBC Okanagan. Successful Candidates are required to be in Canada for the duration of the position. (Note: a full-time student is defined as having a minimum of 24 credits for the 2023 winter session).

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**Faculty of Applied Science
School of Engineering
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(UTA or GTA)**

The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

ENGR 479 – Measurement Principles in Thermal-Fluids

Instruments and methods of measuring fluid thermo-physical properties. Pressure-based velocity measurements. Thermal anemometry. Particle-based techniques for velocity measurement. Sonic anemometry/thermometry. Measurement of flow pressure and density. Measurement techniques for temperature and heat flux. Fundamentals of data processing and analysis.

Start Date: January 8, 2024

End Date: April 26, 2024

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The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

ENGR 485 – Heating, Ventilating, and Air Conditioning

Properties of moist air, air conditioning systems, heat transmission in building systems, heating and cooling load, refrigeration, pumps and piping design, fans and building air distribution..

Start Date: January 8, 2024

End Date: April 26, 2024

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ENGR 487 – Digital Control

Digital control theory and a brief review of classical control and its relationship to discrete systems. Discrete time systems, sampling, z-transform, pulse transfer function, stability in z-domain, pole-placement control design and state estimation, discrete linear quadratic optimal control, introduction to system identification and Kalman filter.

Start Date: January 8, 2024

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ENGR 492 – Finite Element Methods

Finite Element Discretization, Direct Stiffness Method, Numerical Solution of Large Deformations, Formulation of Finite Elements, Auxiliary Equations, Thermomechanical Analysis, Computer Implementation of the Finite Element Methods, Case Studies in Material Forming and Multi-Physics.

Start Date: January 8, 2024

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ENGR 493 – Introduction to Aerodynamics and Aircraft Design

Aircraft conceptual design: methods for estimating aircraft weight, fuel load, lift, thrust, airfoil and wing specification, engine selection and sizing, and structural loads. Introductory aerodynamics of airfoils and wings.

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ENGR 494/535 – Autonomous Vehicle Technology

Autonomous navigation: perception, localization and mapping, motion planning, and motion control; and applications to unmanned aerial vehicles (UAVs), automated vehicles and self-driving cars..

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ENGR 495 – Tissue Engineering

Fundamentals of cell biology; extracellular matrix, receptors, and cell-cell and cell-matrix interactions at both the theoretical and experimental levels; effects of physical, chemical, and electrical stimuli on cell function; tissue structure and function and the clinical need for tissue repair; scaffold design and processing for tissue engineering.

Start Date: January 8, 2024

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ENGR 497 – Combustion Processes

Combustion thermochemistry, fundamentals of mass transfer, chemical kinetics and combustion related chemical mechanisms, analysis of coupled thermal and chemical systems, laminar and turbulent flames, premixed and non-premixed flames, and combustion instabilities (e.g., thermoacoustics).

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ENGR 501 – Deep and Reinforcement Learning for Engineers

Foundations of neural networks and deep learning; techniques to improve neural networks; convolutional neural networks recurrent neural networks and their applications; reinforcement learning: basics, Q-learning, actor-critic algorithm; practical engineering applications of deep and reinforcement learning.

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ENGR 502 – Technical Communication for Engineering Research

Strategies for clear, effective, and ethical technical communication (both written and oral). Tools and formatting for graphics, technical reports, proposals, journal papers, theses. Pass/Fail.

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ENGR 511 – Technology Entrepreneurship for Engineers

Engineering and innovation, business models, customer development, intellectual property, product development, customer validation, hypothesis testing, company positioning.

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ENGR 516 – Advanced Manufacturing

Product manufacturing, powder metallurgy, Computer-Aided Design (CAD) and Computer-Aided Manufacturing (CAM), Computer Numeric Control (CNC) tools, process planning, micro and nano manufacturing, optical and electron measurement techniques.

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End Date: April 26, 2024

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ENGR 522 – Advanced Design of Steel Structures

Behaviour and design of steel structures, members, and cross sections in accordance with limit states principles. Behaviour and design of braced frames and moment resisting frames. Second-order analysis of frames. Load path concepts for detailing connections.

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ENGR 523 – Seismic Design and Buildings

Review of structural dynamics and response spectra; seismic design of steel and masonry buildings; seismic design of reinforced concrete structures; design using simplified code procedures and computer tools.

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End Date: April 26, 2024

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ENGR 532 – Project Planning and Control

Project planning and alignment, project control standards and deliverables, project selection process, project definition rating index, and risk management. Analytical hierarchical processes, and Monte-Carlo simulation in scheduling and costing.

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ENGR 446/546 – Biological Treatment Process

Theory and practice of biological wastewater treatment including aerobic and anaerobic processes in suspended and attached growth reactors, treatment models, advanced treatment, sludge handling, and treatment plant design.

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ENGR 563 –Advanced Polymer Science and Engineering

Introduction to polymer science, polymer chain architecture and configuration, thermodynamics of polymer solutions, amorphous and crystalline states of polymers, rubber elasticity, networks and gels, polymer viscoelasticity and rheology, mechanical properties of polymers, multicomponent polymer systems, polymer processing and forming.

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ENGR 571 – Radio Frequency Integrated Circuits

Introduction to radio frequency systems, RF transceiver architectures, analysis of gain, noise figure and linearity, monolithic active and passive components, low noise amplifiers, mixers, oscillators, and power amplifiers.

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(UTA or GTA)**

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ENGR 583 – Multiphase Flows

Fundamentals of liquid instabilities, breakup of liquid sheets, breakup of liquid jets, droplet dynamics, bubble dynamics, atomization and spray, single particle motion, boiling, and condensation.

Start Date: January 8, 2024

End Date: April 26, 2024

Description of Duties: The successful candidate will conduct lab or tutorial sections or marking under the supervision of the course instructor.

Wage for this position: As per the BCGEU Collective Agreement UTA or GTA.

Eligibility: To be eligible to apply, applicants must be enrolled in a full-time undergraduate or graduate degree program at UBC Okanagan. Successful Candidates are required to be in Canada for the duration of the position. (Note: a full-time student is defined as having a minimum of 24 credits for the 2023 winter session).

TO APPLY FOR THIS POSITION: Please complete online TA application form

APPLICATION DEADLINE: April 30, 2023

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THE UNIVERSITY OF BRITISH COLUMBIA

**Faculty of Applied Science
School of Engineering
POSITIONS –TEACHING ASSISTANT
(UTA or GTA)**

The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

ENGR 598S – Topics in Engineering – POINT CLOUDS

Topic: Point Cloud Applications in Civil Engineering

This course is restricted to students in one of these programs:

MASC-O -OR-

in one of these programs: PHD-O -OR-

in one of these programs: MENG-O

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MANF 270 – Production Systems I

Introduction to production systems management and operations. Focus on the impact of operations in increasing productivity, reducing waste in manufacturing facilities.

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End Date: April 26, 2024

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MANF 330 – Manufacturing Engineering Project I

Project-based design and optimization of manufacturing processes (Casting, bulk deformation, sheet metal, polymer), metrology, measuring cutting forces in machining, CNC machining

Start Date: January 8, 2024

End Date: April 26, 2024

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MANF 450 – Life Cycle Analysis and Sustainability

Practical and theoretical applications of life cycle thinking in engineering projects, products, and processes. Understand international standards and methods in life cycle assessment (LCA), life cycle costing (LCC). Interpret and provide critical feedback on LCA/LCC studies and analyze claims on sustainability.

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End Date: April 26, 2024

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MANF 465 – Digital Enterprise

Systems integration and data analytics for engineering processes in a digital enterprise with industrial automation systems, production and operation, information fusion, performance monitoring and learning, and software and simulation platforms for manufacturing applications.

Start Date: January 8, 2024

End Date: April 26, 2024

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MANF 486 – Mechatronic Systems Laboratory

Smart sensors and actuators, electro-pneumatic actuators, automated control systems, industrial communication, smart maintenance, object detection, industrial robotics, modelling and simulation of mechatronic systems. Hands-on training on mechatronic system trainers in a laboratory scale

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End Date: April 26, 2024

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